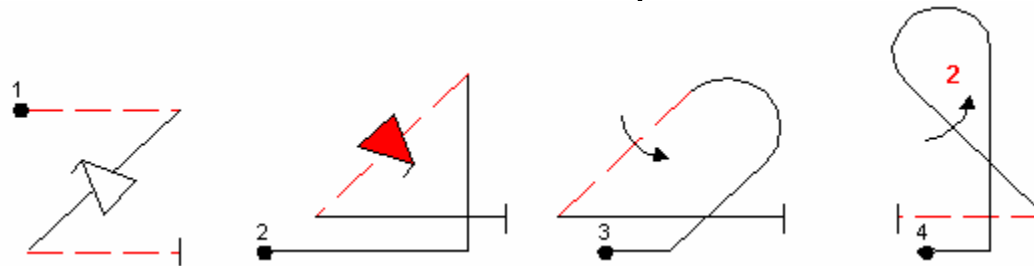


2006 Advanced Unknown Sequence Construction Rules

- 1> On 45-degree downlines that require a 135-degree push or pull to figure exit, roll elements cannot be in excess of 360 degrees (1- roll), no combination rolls allowed. Examples:



- 2> Combination or total roll elements on horizontal and 45-degree cannot be in excess of 720 degrees (2 rolls). Except for special limitations for figures covered by rule one above, or Special Family Nine rules.
- 3> Combination or total roll elements on vertical lines or looping maneuvers cannot be in excess of 540 degrees (1-1/2 rolls), except for spins.

Total roll limitation or combination roll elements means the total sum of all rolls on that line; linked, unlinked and combination.

Advanced Unknown Special Roll Limitations within Families

Family One special rules:

1. Total roll degree limitation for the 45-degree downline on figures 1.20 thru 1.23 columns 3 and 4 is 540 degrees.

Family Seven special rules:

1. See rules above.

Family Eight special rules:

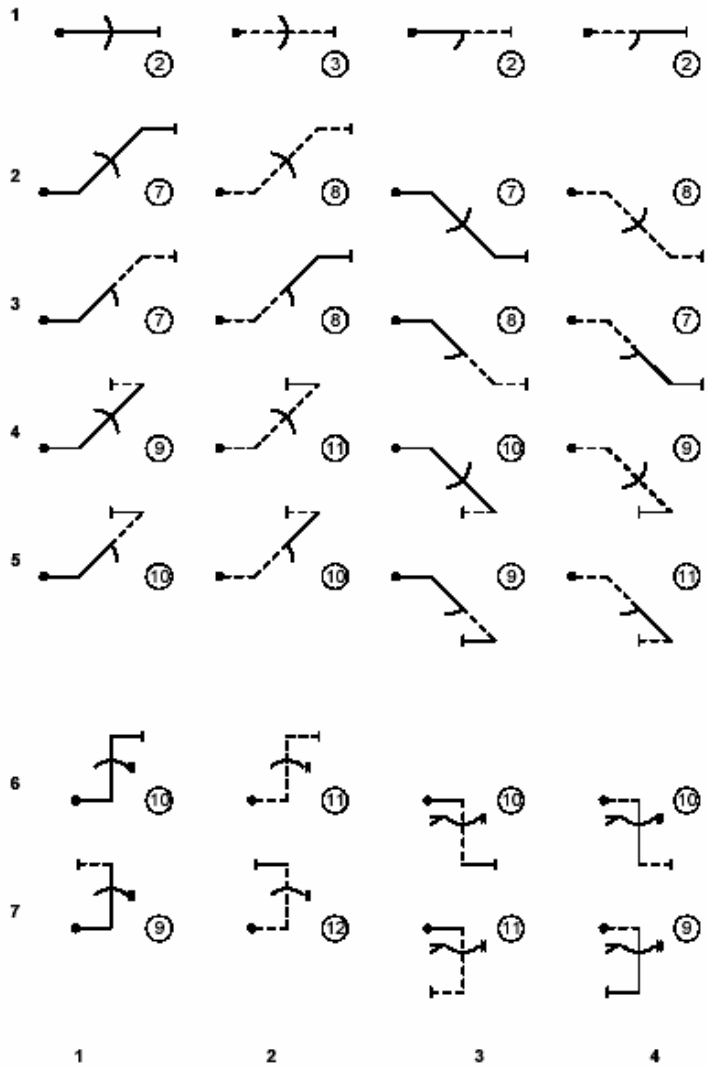
1. For all family 8 figures (8.1 thru 8.72) total roll limitations for 45-degree downlines is 540 degrees, except when Rule 1 from page 1 applies.

Family Nine special rules:

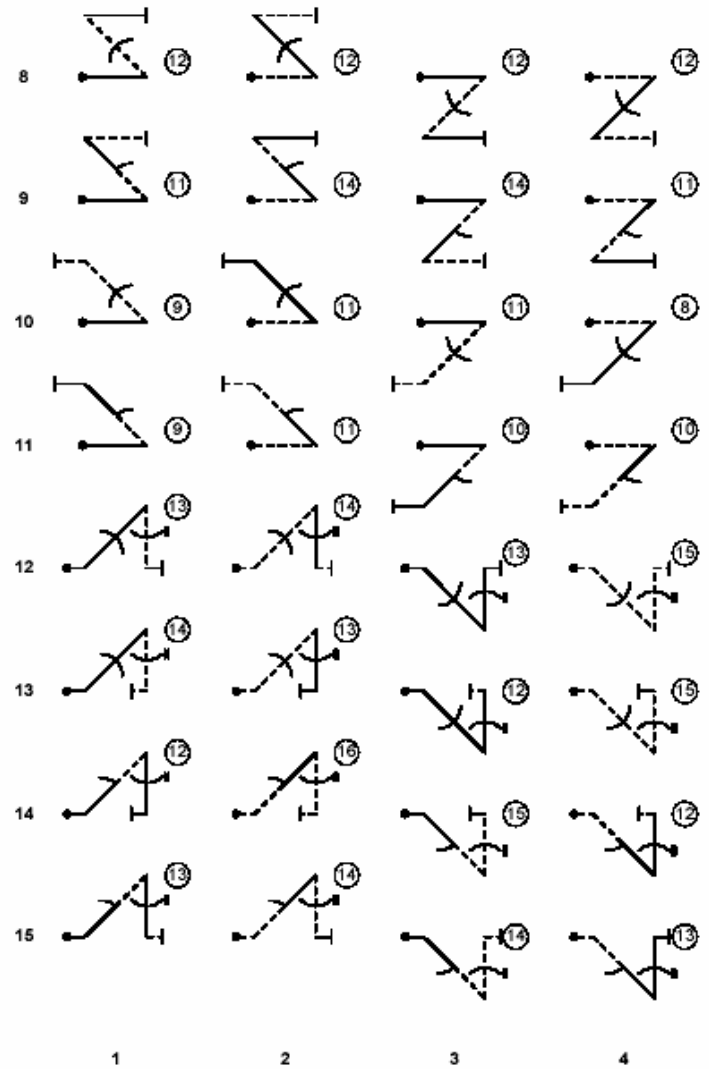
1. See rules above, and special rules at the top of the Family Nine pages.

Follow roll limitations from page one, with special consideration for those figures covered by rule 1.

1. LINES AND ANGLES

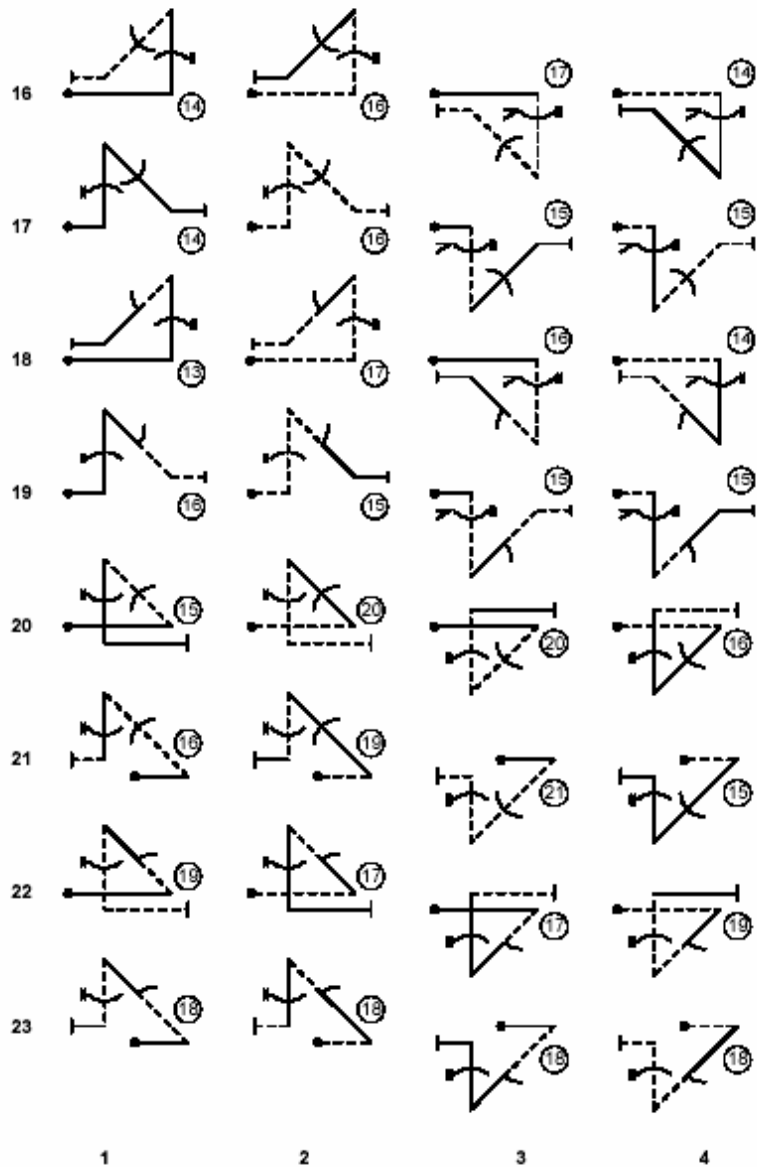


1.

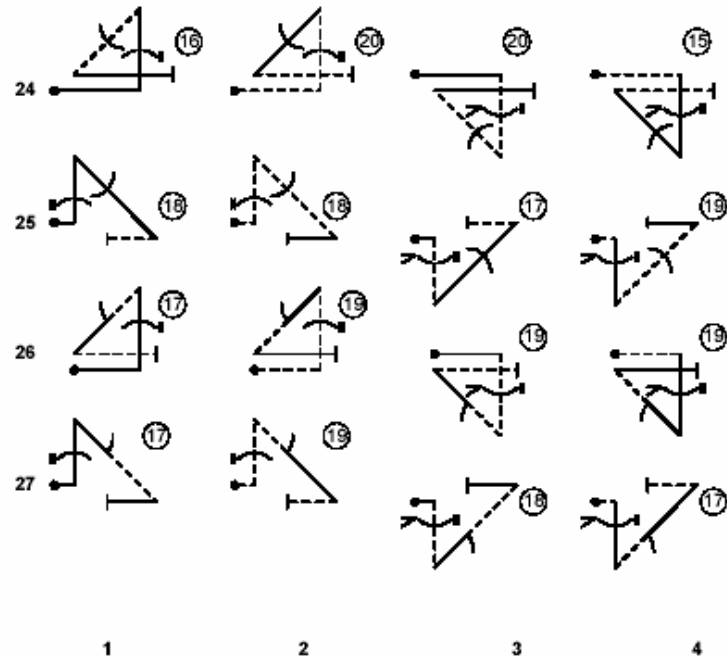


Follow roll limitations from page one, with special consideration for those figures covered by rule 1.
 Total roll degree limitation for the 45-degree downline on figures 1.20 thru 1.23 columns 3 and 4 is 540 degrees.

1.

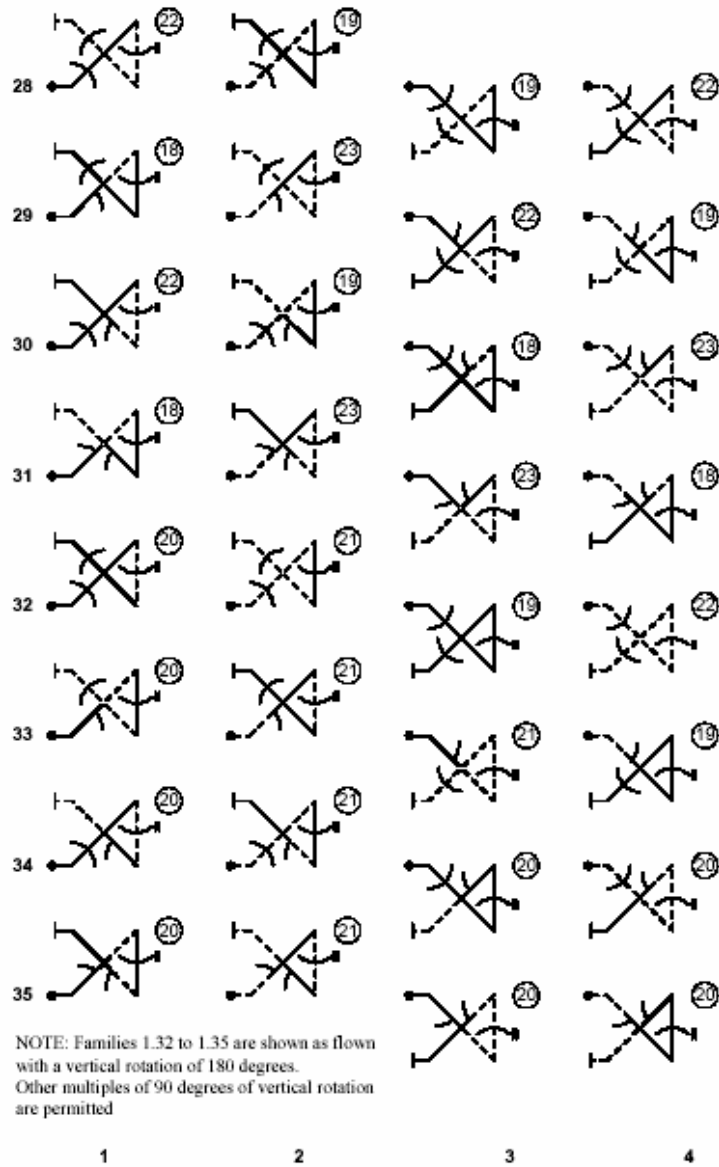


1.



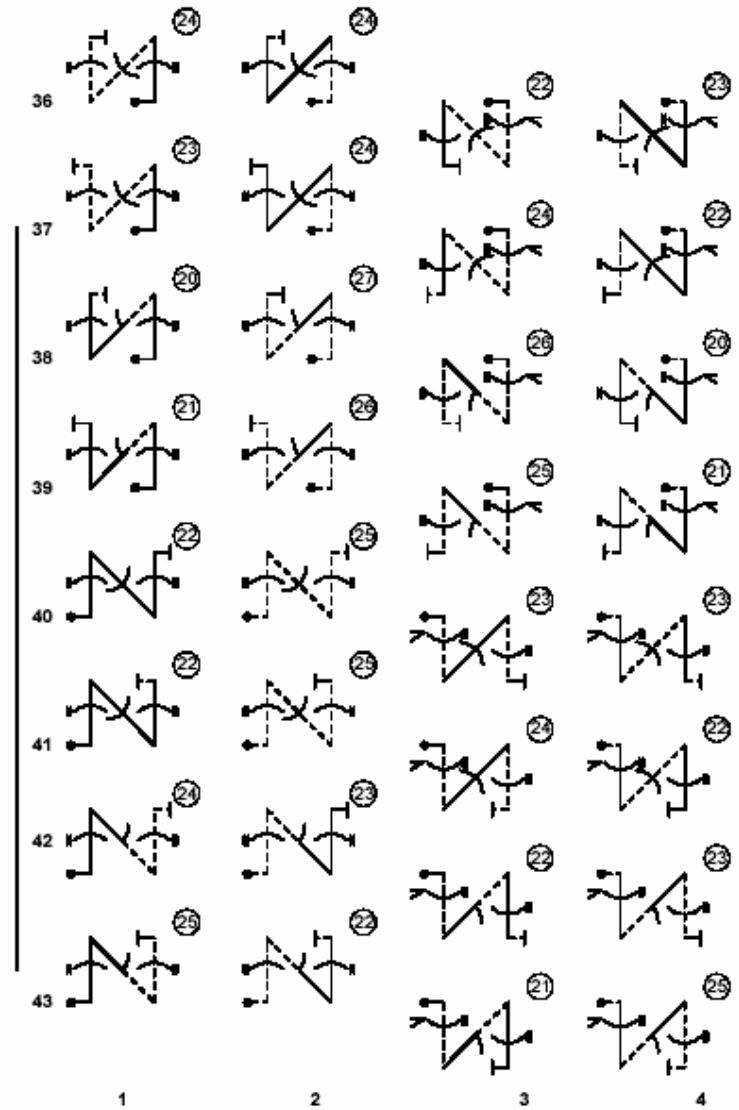
Follow roll limitations from page one.

1.



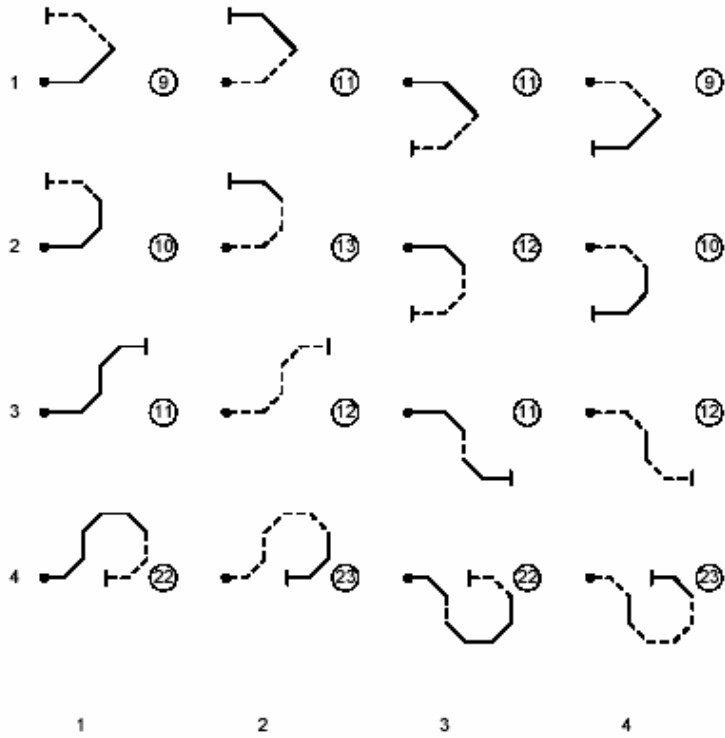
NOTE: Families 1.32 to 1.35 are shown as flown with a vertical rotation of 180 degrees. Other multiples of 90 degrees of vertical rotation are permitted

1.

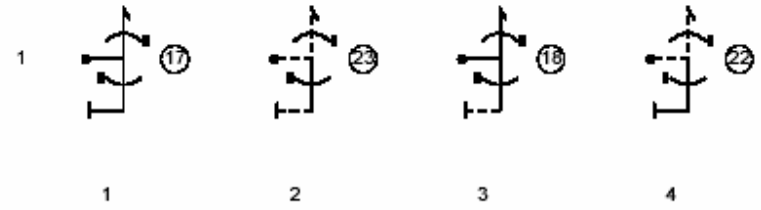


Follow roll limitations from page one.

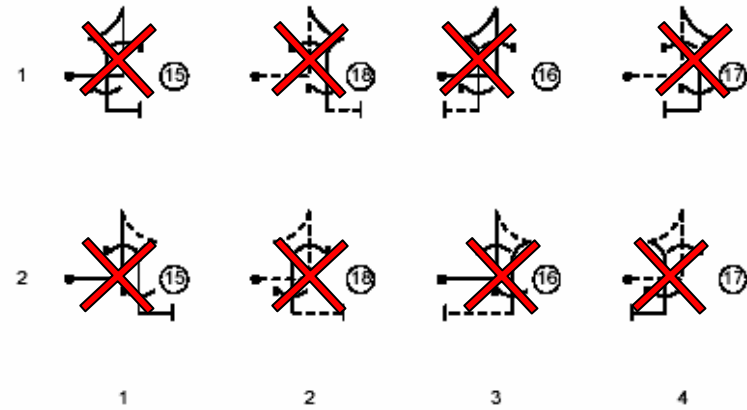
3. COMBINATIONS OF LINES



5. STALL TURNS

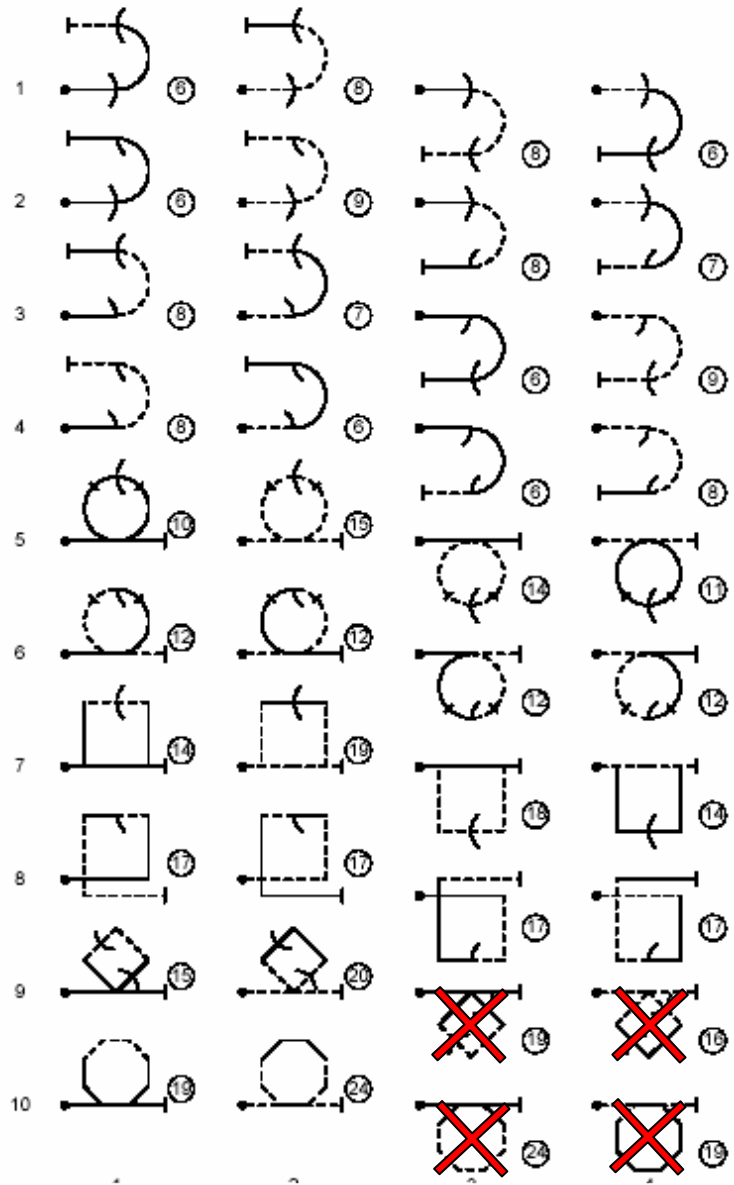


6. TAILSLIDES

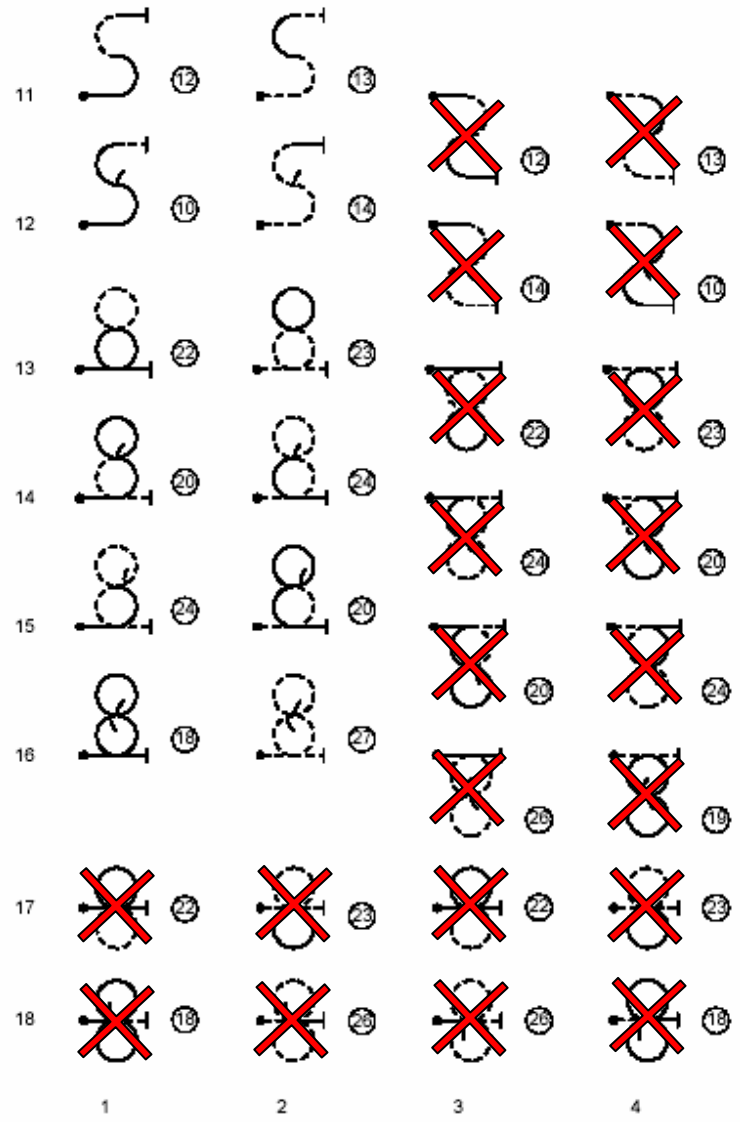



Follow roll limitations from page one.

7. LOOPS AND EIGHTS



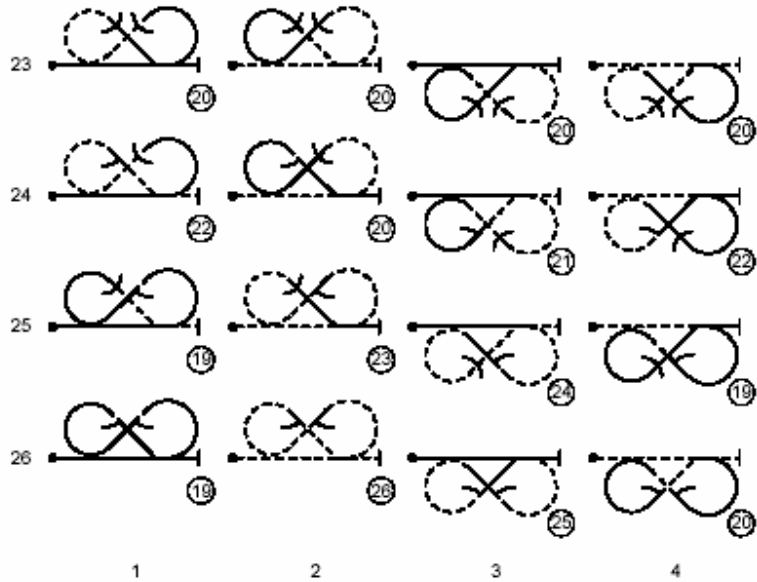
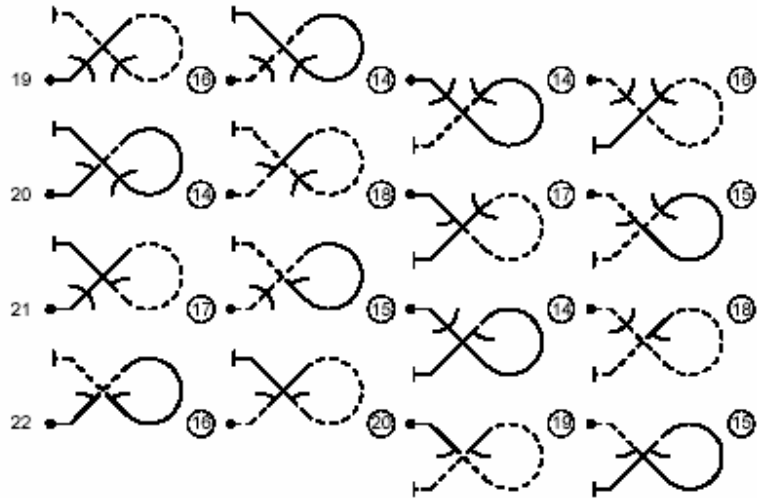
7.



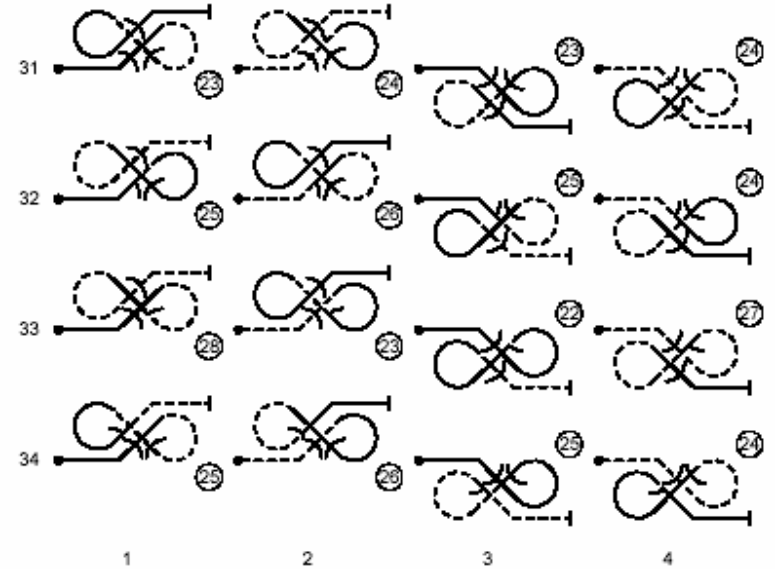
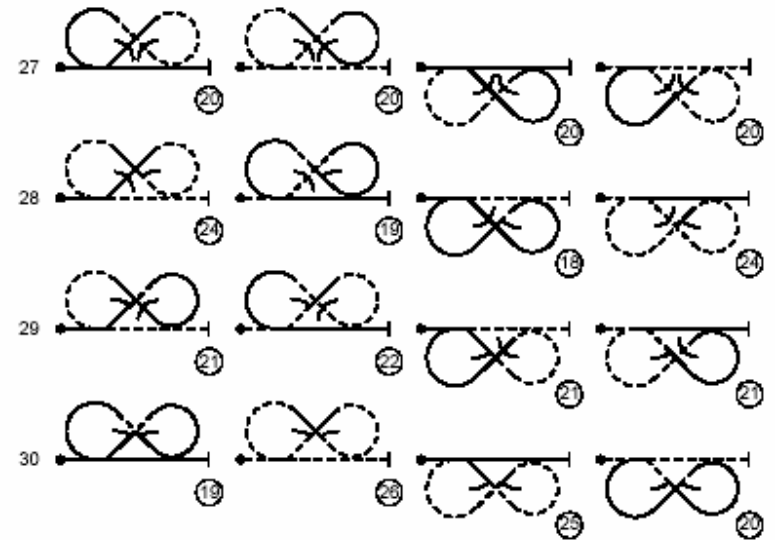
NOTE: At the sign , only half-rolls permitted.

Follow roll limitations from page one.

7.

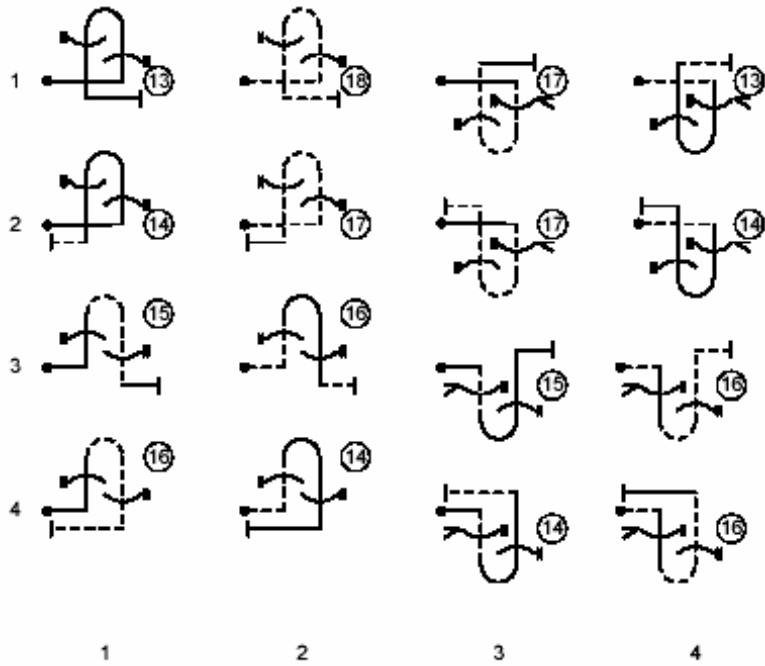


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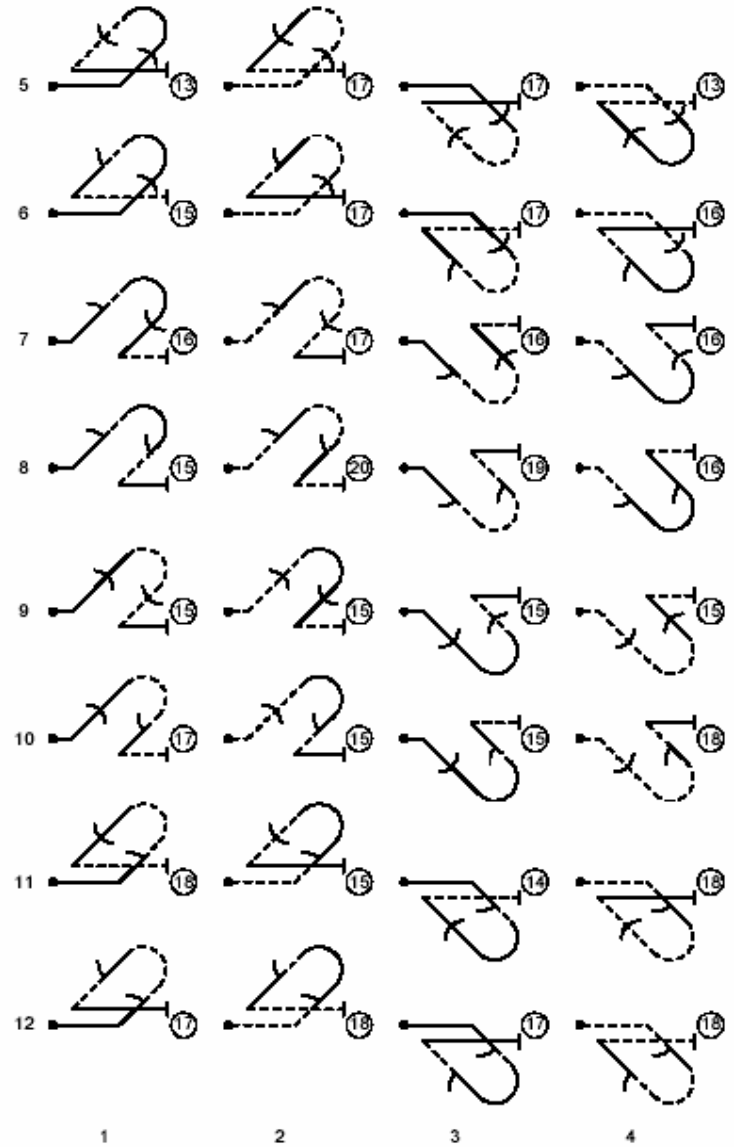


For all family 8 figures (8.1 thru 8.72) follow total roll limitation on page one. Except for 45- degree downlines are limited to 540 degrees, or 360 degrees when Rule 1 from page 1 applies.

8. COMBINATIONS OF LINES, ANGLES AND LOOPS

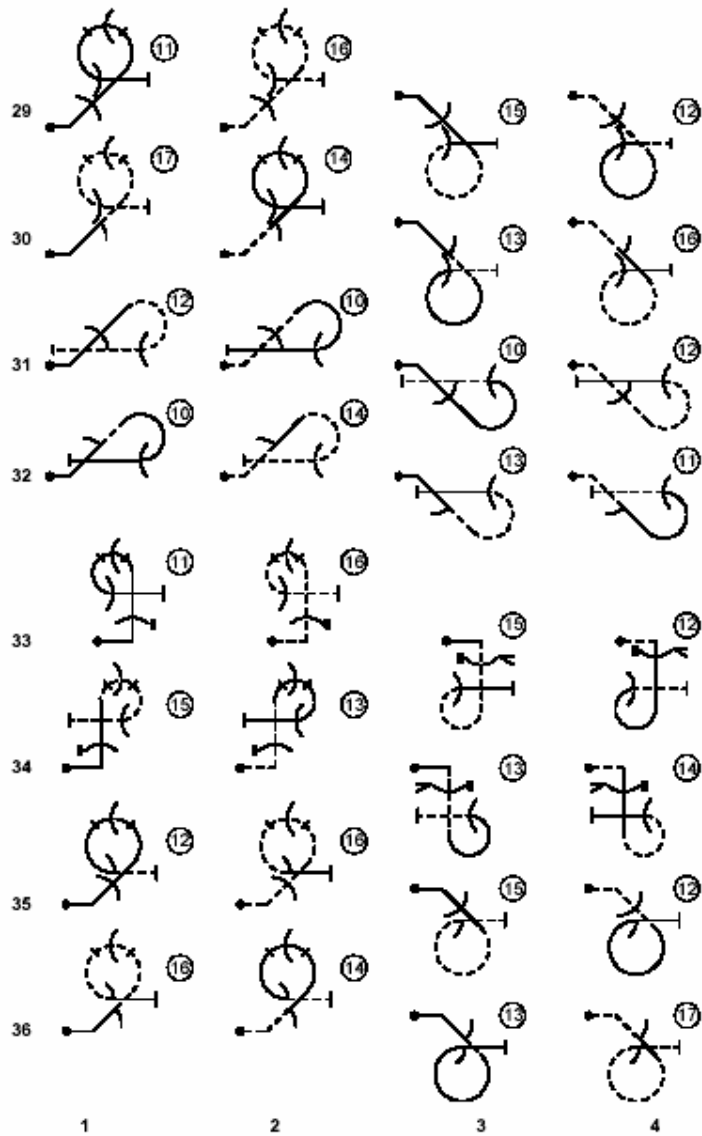


8.

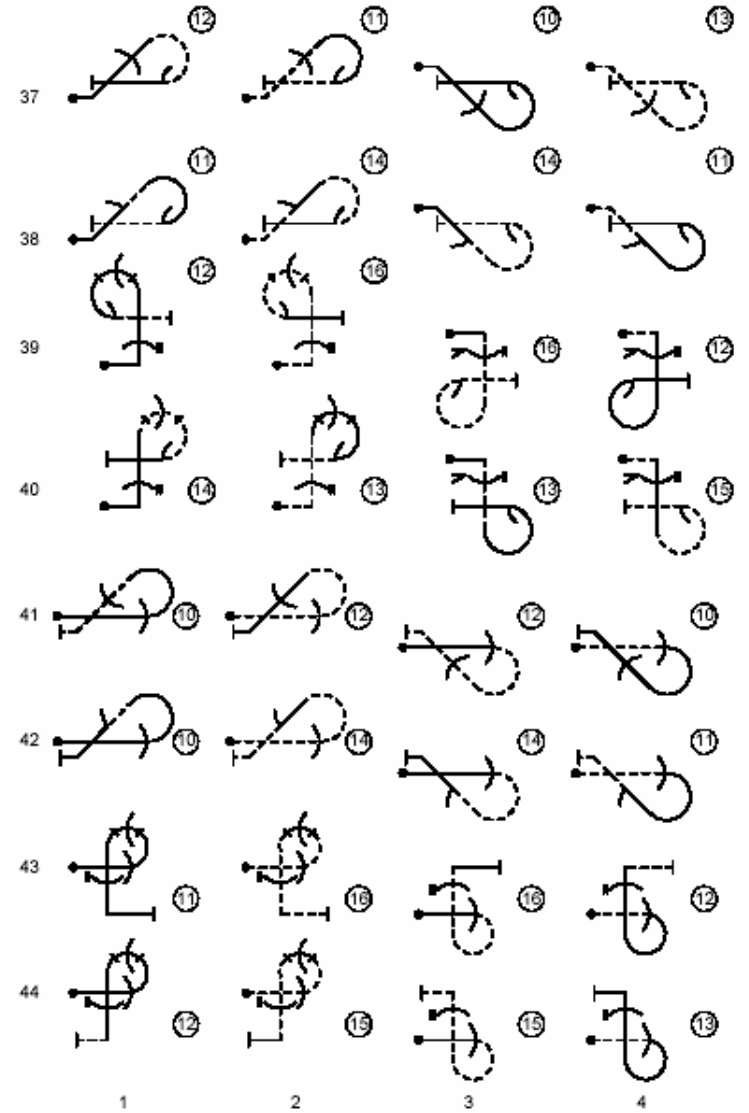


For all family 8 figures (8.1 thru 8.72) follow total roll limitations on page one. Except for 45-degree downlines are limited to 540 degrees, or 360 degrees when Rule 1 from page 1 applies.

8.

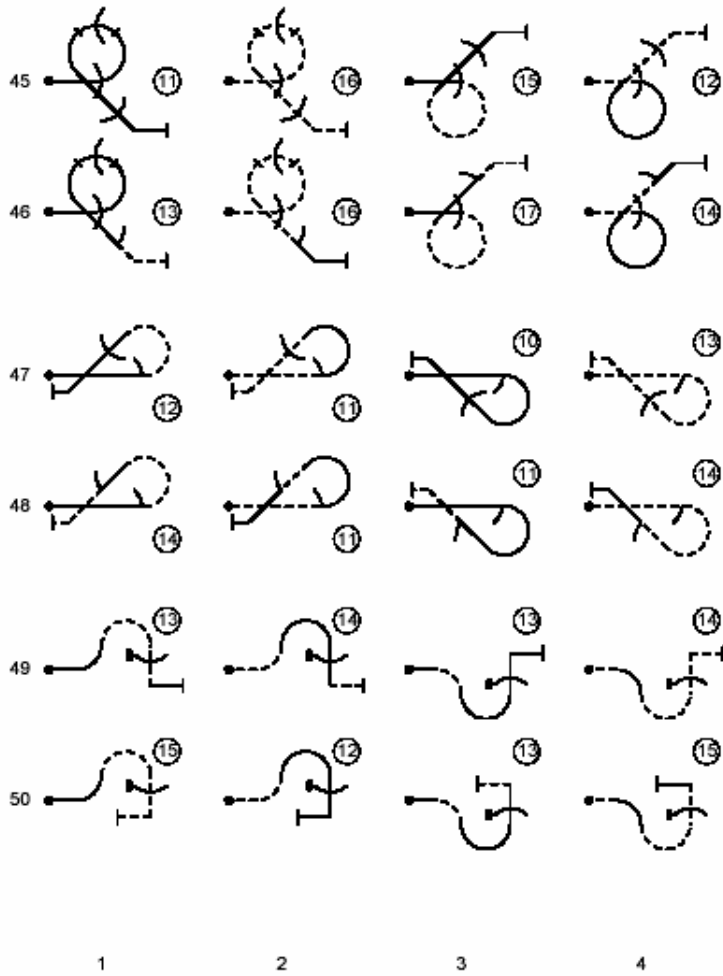


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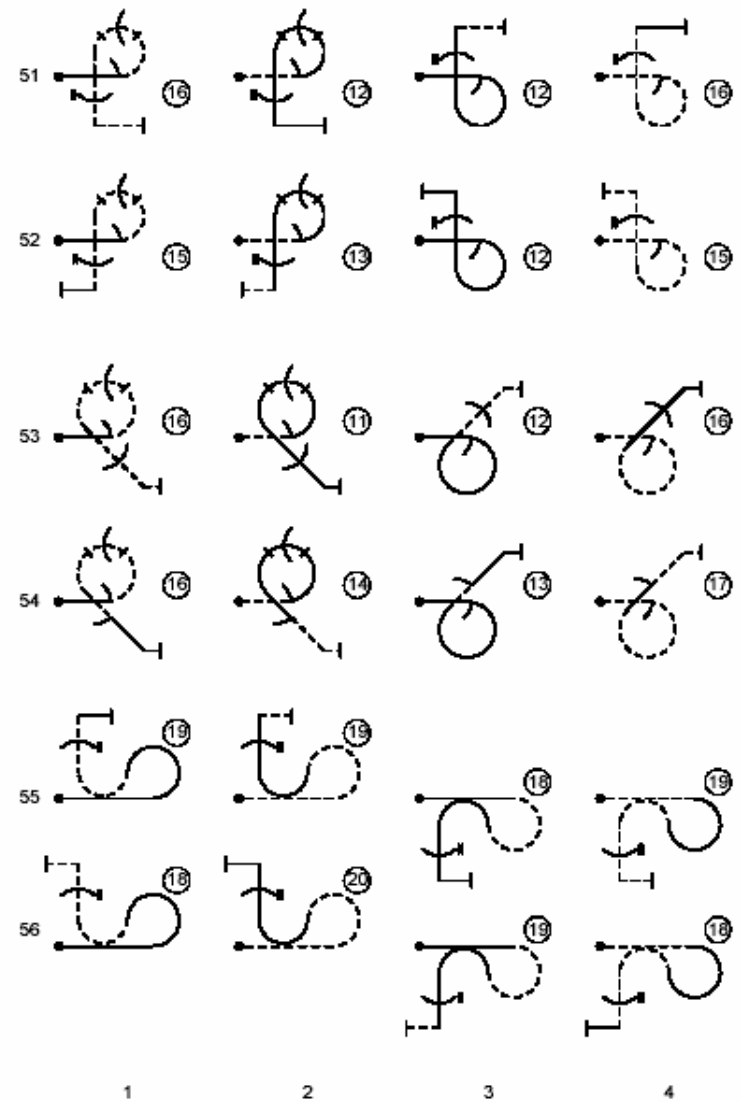


For all family 8 figures (8.1 thru 8.72) follow total roll limitations on page one. Except for 45-degree downlines are limited to 540 degrees, or 360 degrees when Rule 1 from page 1 applies.

8.

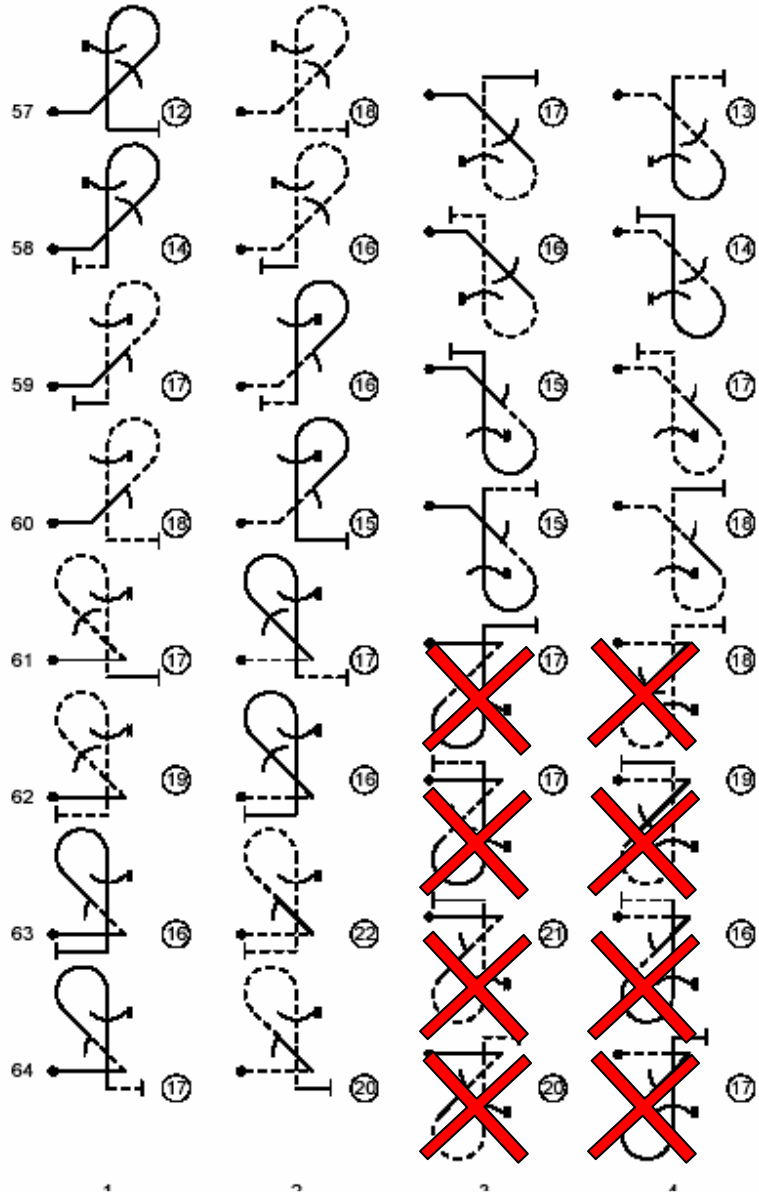


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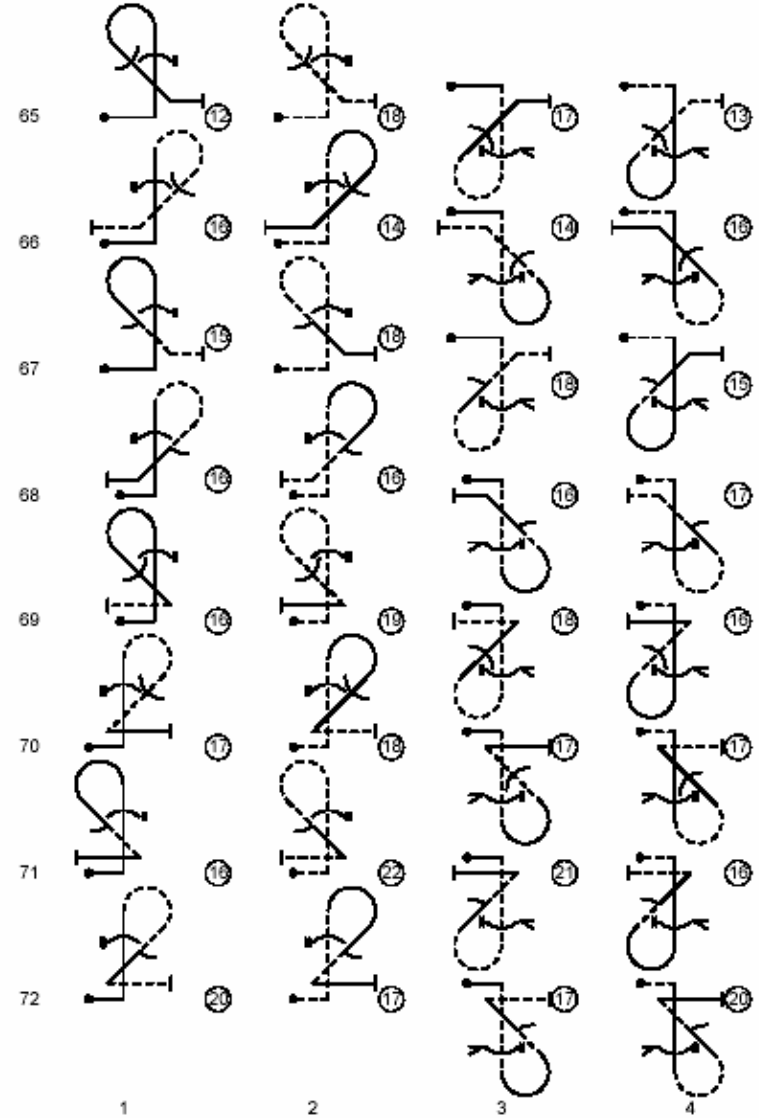


For all family 8 figures (8.1 thru 8.72) follow total roll limitations on page one. Except for 45-degree downlines are limited to 540 degrees, or 360 degrees when Rule 1 from page 1 applies.

8.



8.



Follow roll limitations from page one. The exception is the rolls that have been “X” out for footprint and safety.

9. ROLLS AND SPINS

FAMILY 9.1 (SLOW ROLLS)

9.1		¼	½	¾	1	1¼	1½	1¾	2
1		6	8	10	12	14	15	17	18
2		4	6	8	10	11	12	14	15
3		2	4	6	8	9	10	11	12
4		2	4	6	8	9	10	11	12
5		2	4	6	8	9	10	11	12
		1	2	3	4	5	6	7	8

FAMILY 9.2 (2-POINT ROLLS)

9.2					1	1½	2		
1					13	17	18		
2					11	14	15		
3					9	12	15		
4					9	13	15		
5					9	12	15		
		1	2	3	4	5	6	7	8

Follow roll limitations from page one. The exception is the rolls that have been “X” out for footprint and safety.

FAMILY 9.4 (4-POINT ROLLS)

9.4			½	¾	1	1¼	1½	1¾	2
1			9	12	15	X	X	X	X
2			7	10	13	X	X	X	X
3			5	8	11	13	15	X	X
4			5	8	11	X	X	X	X
5			5	8	11	X	X	X	X
		1	2	3	4	5	6	7	8

9.8 FAMILY 9.8 (8-POINT ROLLS)

9.8			¼	½	¾	1	1¼	1½	1¾	2
1			7	11	15	19	X	X	X	X
2			5	9	13	17	X	X	X	X
3			3	7	11	15	X	X	X	X
4			3	7	X	X	X	X	X	X
5			3	7	X	X	X	X	X	X
		1	2	3	4	5	6	7	8	

Follow roll limitations from page one. The exception is the rolls that have been “X” out safety and class limitation.







FAMILY 9.9 (POSITIVE FLICK ROLLS)

9.9			½	¾	1	1¼	1½	1¾	2
1			15	15	15	17	17	17	17
2			13	13	13	15	16	16	16
3			11	11	11	13	14	14	14
4			11	11	11	13	14	14	14
5			11	11	11	13	14	14	14
6			17	17	17	19	19	19	19
7			15	15	15	17	19	19	19
8			13	13	13	15	16	16	16
9			13	13	13	15	16	16	16
10			13	13	13	15	16	16	16
		1	2	3	4	5	6	7	8







FAMILY 9.10 (NEGATIVE FLICK ROLLS)

9.10			½	¾	1	1¼	1½	1¾	2
1			15	15	15	17	17	17	17
2			15	15	15	17	19	19	19
3			13	13	13	15	16	16	16
4			13	13	13	15	16	16	16
5			13	13	13	15	16	18	20
6			17	17	17	19	19	19	19
7			17	17	17	19	21	21	21
8			15	15	15	17	19	19	19
9			15	15	15	17	19	19	19
10			15	15	15	17	19	19	19
		1	2	3	4	5	6	7	8

FAMILY 9.11 (POSITIVE SPINS)

								
1		Upright Entry Line		5	4	3	3	3
			4	5	6	7	8	

FAMILY 9.12 (NEGATIVE SPINS)

								
1		Inverted Entry Line		7	6	5	5	5
			4	5	6	7	8	